Preproposal Report

Project Title: Region 1 Bee Monitoring Program

Project Description:

Four NWR's are continuing from 2014, bee monitoring in conjunction with management techniques; 1 NWR is starting baseline surveys for bees. Funding is needed for sample processing and bee identification by the Logan Bee Lab in Utah for 2015 samples. Funding within their Intra-agency Agreement has been depleted; additional funds are needed to continue the project.

Project Type(s): Inventory, Monitoring, Assessment, Data Management

Project Category(ies) (select one or more): Pollinators

Relevance to Management or Understanding of Refuge Resources:

Does the project address a refuge management issue? Yes Does the project provide information about a refuge resource(s) that is lacking or poorly understood? Yes

If you answered yes to either question, then briefly describe how the project informs a refuge management decision/process and/or enhances knowledge of a refuge resource(s). Also, briefly describe what makes this project notable in comparison to what the refuge staff typically undertakes as part of its regular or reoccurring biological activities.

Pollinator fauna are poorly known on most NWRs. Four Refuges in the 2015 program are in their second year of evaluating management treatments on bee fauna and/or collecting baseline data for habitat restoration. This data collected will also contribute to the overall knowledge of bee fauna on PNW refuges.

Justifications (benefits) for project:

Coordinate monitoring among multiple refuges to gain efficiencies, Evaluate benefits of refuge management (achieving one or more CCP objectives), Evaluate if refuge management is negatively affecting species or habitats, Create a species list for a refuge, especially for rare/unique communities

Participating refuges: Protection Island NWR;Willapa NWR;Hanford NM;Turnbull NWR;Little Pend Oreille NWR

Provide a project timeline:

Field work to begin April 2015 through October 2015 (Refuge-led). Processing and identification by the Logan Bee Lab to be accomplished by December 2016.

Budget estimate (If the project requires multiple years, then itemize cost annually.)

\$3000 for pins, units, drawers, 1 cabinet; technician full-time 16 weeks @\$15/hr =\$9600 for total of \$12,600.

Possible funding sources (select one or more): I&M

How will the project funding be fully spent or obligated? (select one or more): Agreement

How could the project be conducted? (select one or more): Contractor

Are there partners that would be directly involved with the project? Yes

List them and briefly describe their roles/contributions. Partners can be FWS program staff (e.g., Water Resources, Fire, Migratory Birds, I&M) or non-FWS entities providing in-kind support (e.g., equipment, staff time, funding).

Refuge staff from 5 Refuges to conduct field collections of bees

What are the expected product(s)? Database

Contact person: Joe Engler